| lr. | ıdex | of Cl | aims |  |
|-----|------|-------|------|--|
|     |      |       |      |  |

| App | lica | tion | /Co | ntro | No. |
|-----|------|------|-----|------|-----|
|-----|------|------|-----|------|-----|

10/840,138

Examiner

Xiaozhen Xie

Applicant(s)/Patent under Reexamination

WANG ET AL.

Art Unit

1646

| <b>√</b> | Rejected | _ |  |
|----------|----------|---|--|
| 11       | Allowed  | ÷ |  |

| - | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| _ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| - | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

|  |  | ليــا        |          |                |  |              |  |              |              |                |
|--|--|--------------|----------|----------------|--|--------------|--|--------------|--------------|----------------|
|  |  |              |          |                |  |              |  |              |              |                |
| Cla  | im   |              | _        | _              | [  | Date         |  | _            | _            | _              |
|  |  | <u>س</u> ا   |          |                |  |              |  |              |              |                |
| Final  | Original   | 10/11/06     |          |                |  |              |  |              |              | l              |
| Ŀ.   | iĝi  | 15           |          |                |  |              |  |              |              |                |
| u.   | ō  | 2            |          |                |  |              |  |              |              | 1              |
|  |  |              | _        |                |  |              |  |              |              | ш              |
|  | 1<br>2<br>3<br>4<br>5<br>6   | 1            |          |                |  |              |  |              |              | Ш              |
|  | 2  |              |          |                |  |              |  |              |              |                |
|  | 3  | П            |          |                |  |              |  |              |              |                |
|  | 1  | 1            | _        | _              | -  | _            |  | _            |              | Н              |
|  | -  | 1            |          |                |  |              |  | -            |              | Н              |
|  | 3  | <u>'</u>     |          |                |  |              |  |              |              |                |
|  | Щ  |              |          |                |  |              |  |              | _            | Ш              |
|  | 1  |              |          |                |  |              |  |              |              |                |
|  | 8  |              |          |                |  |              |  |              |              |                |
|  | g  |              |          |                |  |              |  |              |              |                |
|  | 10   | J            |          | -              | _  |              |  |              | _            | $\vdash$       |
|  | 11   | 4            | _        | $\vdash$       | $\vdash$   |              | _  |              | -            | $\vdash$       |
| ļ <u> </u>                                       | 11<br>12<br>13   | -            |          | <u> </u>       |  |              | -  |              | <u> </u>     |                |
|  | 17   |              |          |                | L  |              |  |              |              |                |
|  | 13   |              |          |                | L  |              |  |              | _            |                |
|  | 14<br>15<br>16   |              |          |                |  |              |  |              | Ī            |                |
|  | 15   | П            |          | $\Box$         |  |              |  |              | Т            | $\Box$         |
|  | 14   | $\vdash$     | -        | -              | -  |              | -  |              | -            |                |
|  | -14  | -            | _        | _              |  | $\vdash$     | _  |              | ⊢            | Н              |
|  |  | _            | _        | _              | $\vdash$   | $\vdash$     | _  | _            |              | $\sqcup$       |
|  | 18   |              |          |                | _  | _            |  |              | _            | Ш              |
|  | 19   |              |          |                |  |              |  |              |              | LJ             |
|  | 20   |              |          |                |  |              |  |              |              |                |
|  | 21   |              |          |                | _  |              |  |              |              | $\Box$         |
|  | 22   | -            |          |                |  |              |  | _            |              | $\vdash$       |
| -  | 22   |              | _        | -              | -  | -            | -  |              | -            |                |
|  | 23   |              |          | _              | -  | _            |  | _            |              |                |
|  | 24   |              |          | _              | _  |              | _  | _            | _            | Щ              |
|  | 25   |              |          |                |  |              |  |              |              |                |
|  | 26   |              |          |                | l  |              |  |              |              |                |
|  | 27   | П            |          |                |  |              |  |              |              |                |
|  | 28   | <del> </del> | _        | $\vdash$       | <del>                                     </del> | $\vdash$     | -  | _            | -            | Н              |
| <del> </del>                                     | 20   | -            |          |                | -  | -            | -  | -            | -            | ┨              |
| <u> </u>   | 29   | -            | _        | <u> </u>       |  |              |  |              |              | Ш              |
|  | 30   |              | _        | _              |  | _            |  |              |              | Щ              |
| L  | 11<br>18<br>19<br>20<br>21<br>22<br>23<br>24<br>25<br>26<br>27<br>28<br>29<br>30<br>31<br>32<br>33<br>34<br>35<br>36<br>37<br>38 |              | L        | L              | L  | L            |  |              | L            | Ш              |
|  | 32   | Π            |          |                |  |              |  |              |              | П              |
|  | 33   | П            | Г        | <u> </u>       |  |              | Ι  |              |              | П              |
| $\vdash$   | 34   | $\vdash$     | $\vdash$ | $\vdash$       | <del>                                     </del> |              | <del>                                     </del> |              | $I^-$        | Н              |
|  | 35   | -            | $\vdash$ | $\vdash$       | -  | $\vdash$     | $\vdash$   | $\vdash$     |              | H              |
| <del> </del>                                     | 35   | -            | <u> </u> | $\vdash$       | $\vdash$   | $\vdash$     | $\vdash$   | <del> </del> | <del> </del> | $\vdash\vdash$ |
|  | 36   | L.           |          | _              | <u> </u>   | $\vdash$     | <u> </u>   |              | <u> </u>     |                |
| L  | 37   | <u> </u>     | ļ        | <u> </u>       | _  |              | <u> </u>   | <u> </u>     | _            | Ш              |
|  | 38   | L            | L        | L              | L  | L            |  |              | L            |                |
|  | 39   |              |          | _              |  | _            |  | _            | Γ            | П              |
|  | 40   | Π            |          | Г              |  | Г            | Г  |              | Г            | П              |
| <b></b>  | 41   | $\vdash$     |          | -              | <u> </u>   | _            | <del>                                     </del> | $\vdash$     | $\vdash$     | H              |
| <del> </del>                                     |  | -            | $\vdash$ | $\vdash$       |  | $\vdash$     | $\vdash$   | $\vdash$     | $\vdash$     | $\vdash$       |
|  | 42   | <del> </del> | -        |                |  | <u> </u>     |  | <u> </u>     | <u> </u>     | Н              |
|  | 43   |              |          |                |  | ļ            | <u> </u>   | <u> </u>     | <u></u>      | Ш              |
| L <sup>-</sup>                                   | 44   | L.           | L        | L              | L  | L            | L  | L            | L            | L              |
| Ī  | 45   | 1            |          |                |  |              |  |              |              | П              |
|  | 46   | T            | _        | _              | 一  | Τ            |  | <b></b>      | T-           | М              |
| <del>                                     </del> | 47   | <del> </del> | -        | -              | <del> </del>                                     |              | <del>                                     </del> | -            | $\vdash$     | $\vdash$       |
|  |  | $\vdash$     | -        | <del> </del> — | <del> </del>                                     |              | $\vdash$   | $\vdash$     | -            | $\vdash$       |
| <u> </u>   | 48   | <u> </u>     |          |                | <b> </b>   | <u> </u>     | _  | <u> </u>     | <u> </u>     | Ш              |
|  | 49   |              |          | L              | 乚  | $oxed{oxed}$ | $oxed{oxed}$                                     | $oxed{oxed}$ | oxdot        | $\Box$         |
|  | 50   | _            | l        | _              | I  |              |  | _            | 1            | 1              |

| Cla   | im       | Γ-             |              |  |  | Date   | ;        |  |              |  | ) [ | Cla          | im       |  |          |              |          | Date         | •            |              |              | $\neg$   |
|-------|----------|----------------|--------------|--|--|--|----------|--|--------------|--|-----|--------------|----------|--|----------|--------------|----------|--------------|--------------|--------------|--------------|----------|
|       |          | "              |              |  |  |  | $\neg$   |  |              |  |     |              |          |  |          |              |          |              |              |              | $\neg$       | $\neg$   |
| a     | Original | 10/11/06       |              |  |  |  |          |  |              |  |     | a            | Original |  |          |              |          |              |              |              |              |          |
| Final | ğ        | 7              |              |  |  |  |          |  |              |  |     | Final        | į        |  |          |              |          |              |              |              |              |          |
| ш.    | Ö        | 5              |              |  |  |  |          |  |              |  |     | -            | Ō        |  |          |              |          |              |              |              |              |          |
| _     | 1        | 1              |              | -  |  |  | $\dashv$ |  | -            | H  |     |              | 51       |  |          |              |          |              | Н            | $\vdash$     | $\dashv$     | $\dashv$ |
| _     | 2        | H              |              | -  | _  | _  | -        |  |              | $\vdash$   |     |              | 52       | $\dashv$   |          | _            |          |              |              |              |              |          |
|       |          | Н              | _            |  |  | Ш  |          |  |              | <u> </u>   |     |              |          | -1   |          |              |          |              |              | -            | _            | -        |
|       | 3        | ĻJ,            | _            | $\dashv$   |  | $\Box$   |          | _  |              | _  |     |              | 53       |  | -        | _            |          |              |              |              | -            |          |
|       | 4        | V              |              |  |  |  |          | _  |              | <u> </u>   |     |              | 54       | Ш  |          |              |          |              |              |              | -            |          |
|       | 5        | 1              |              |  |  |  |          |  |              |  |     |              | 55       | Ш  |          |              |          |              |              |              |              |          |
|       | 8 9      | <u> </u>       |              |  |  |  |          |  |              |  |     |              | 56       | Ш  |          |              |          |              |              |              |              |          |
|       | _1_      |                |              |  |  |  |          |  |              | L  |     |              | 57       |  |          |              |          |              |              |              |              |          |
|       | -8       |                |              |  |  |  |          |  |              |  |     |              | 58       |  |          |              |          |              |              |              |              |          |
|       |          |                |              |  |  |  |          |  |              |  |     |              | 59       |  |          |              |          |              |              |              |              |          |
|       | 10       | V              |              |  |  |  |          |  |              |  |     |              | 60       |  |          |              |          |              |              |              |              |          |
|       | 11       | 1              |              |  |  |  |          |  |              | -  | Ì   |              | 61       |  |          |              |          |              |              |              |              |          |
|       | 12       | _              |              |  |  |  |          |  |              |  | il  |              | 62       |  |          |              |          |              | -            |              |              |          |
|       | 13       |                |              |  |  |  |          |  |              |  | ĺĺ  |              | 63       |  |          |              |          |              |              |              |              |          |
|       | 14       | _              |              |  | _  |  |          |  |              | $\vdash$   | l i |              | 64       | -  |          |              |          |              |              |              |              |          |
|       | 1\$      | $\vdash$       | -            |  | _  |  |          | _  | $\vdash$     | ┢  |     |              | 65       |  | -        |              |          |              |              |              | -            | $\vdash$ |
|       | 16       | $\vdash$       |              | $\vdash$   |  |  | -        |  | -            | -  | l   |              | 66       |  | -        | -            | _        |              |              |              |              | $\vdash$ |
|       | 17       | -              | -            |  |  |  |          |  | Н            | ┝  |     |              | 67       |  |          |              | _        | _            |              | _            | _            | -        |
|       | 18       | -              | -            | $\vdash$   |  | $\vdash$   |          |  |              | ┢  |     |              | 68       |  |          |              |          | _            | $\vdash$     |              |              | $\dashv$ |
|       |          | -              | _            |  | _  | _  | _        | _  | _            | ┝  |     |              | 60       |  |          |              | _        |              |              | $\vdash$     |              |          |
|       | 19       | <u> </u>       | _            | _  |  |  | $\Box$   |  |              | ļ  |     |              | 69       |  |          |              | _        |              |              |              |              |          |
|       | 20       | ļ              | _            |  |  |  |          |  |              | <u> </u>   |     |              | 70       |  |          | _            |          |              |              |              |              |          |
|       | 21       | L_             |              |  | _  |  |          |  |              | <u> </u>   |     |              | 71       |  |          |              |          |              |              |              | _            | Ш        |
|       | 22       |                | _            |  |  | _  |          |  |              |  |     |              | 72       |  |          |              |          |              |              |              |              |          |
|       | 23       | L_             |              |  |  |  |          |  |              |  |     |              | 73       |  |          |              |          |              | L            |              |              |          |
|       | 24       | L.             |              |  |  |  |          |  |              | <u> </u>   |     |              | 74       |  |          |              | _        | _            |              |              |              |          |
|       | 25       |                |              |  |  |  |          |  |              | _  |     |              | 75       | L  |          |              |          |              |              |              |              |          |
|       | 26       |                |              |  |  |  |          |  |              |  |     |              | 76       |  |          |              |          | l            |              |              |              |          |
|       | 27       |                |              |  |  |  |          |  |              |  | ]   |              | 77       |  |          |              |          |              |              |              |              |          |
|       | 28       |                | Г            |  |  |  |          |  |              |  | 1 1 |              | 78       |  |          |              |          |              |              |              |              |          |
|       | 29       |                |              | -  | _  |  |          |  |              | _  | 1 1 |              | 79       |  |          |              | _        |              |              |              |              |          |
|       | 29<br>30 |                | $\vdash$     | $\vdash$   |  |  |          |  |              | -  | 1   |              | 80       |  |          |              |          |              |              |              |              |          |
|       | 31       | $\vdash$       | 一            | $\vdash$   |  |  |          |  |              | -  | 1   |              | 81       |  |          |              |          | -            | _            | $\vdash$     |              |          |
| _     | 32       | -              | -            |  | -  |  |          |  | $\vdash$     | $\vdash$   |     |              | 82       |  |          |              |          |              | -            | <del> </del> |              |          |
|       | 33       | -              | $\vdash$     | -  |  |  | _        |  | $\vdash$     | $\vdash$   |     |              | 83       | $\vdash$   | -        | -            |          | -            | -            |              |              | $\vdash$ |
| _     | 34       | ⊢              | $\vdash$     | -  |  |  |          |  | ┢            | <del> </del>                                     | 1   |              | 84       | $\vdash$   |          | -            |          |              |              | <del> </del> |              | -        |
|       | 35       | <del>  -</del> | $\vdash$     | <del>                                     </del> | $\vdash$   | $\vdash$   | $\vdash$ | —  | -            | -  |     |              | 85       |  | $\vdash$ | $\vdash$     | $\vdash$ | ┢            | -            | <del> </del> | $\vdash$     | $\vdash$ |
|       | 36       | ├              | -            | $\vdash$   | <u> —</u>  | $\vdash$   | <u> </u> | <u> </u>   | $\vdash$     | <del>                                     </del> |     |              | 86       | <del> </del>                                     | -        | <u> </u>     | $\vdash$ | ⊢            |              | ├—           | -            | $\vdash$ |
|       | 37       | ├              | 1            | $\vdash$   | <u> </u>   | $\vdash$   | <u> </u> |  | <del> </del> |  |     |              | 00       | $\vdash$   |          | <del> </del> | $\vdash$ | $\vdash$     | ⊢-           | $\vdash$     | $\vdash$     | Н        |
|       | 37       | <del> </del>   | ├            | -  | <u> </u>   |  | <u> </u> | _  | <u> </u>     | <u> </u>   | 1   |              | 87       | -  |          | l            | <u> </u> |              |              |              |              | -        |
|       | 38       | <b> </b>       | <del> </del> | <u> </u>   | <u> </u>   | <u> </u> _                                       | $\vdash$ | <u> </u>   | <u> </u>     | <u> </u>   |     |              | 88       | <u> </u>   | <u> </u> | <u> </u>     |          | <u> </u>     | _            | _            | <u> </u>     | $\vdash$ |
|       | 39       | <u> </u>       | <u> </u>     | <u> </u>   | <u> </u>   | <u> </u>   | $\vdash$ | <u> </u>   | <u> </u>     | 1-   |     |              | 89       | ⊢  | <u> </u> | <u> </u>     | <u> </u> | <u> </u>     |              | <u> </u>     | <u> </u>     | <u> </u> |
|       | 40       | _              | <u> </u>     | _  |  |  | _        | _  | <u> </u>     | <u> </u>   |     |              | 90       | <b> </b>   | <u></u>  | L            |          | ļ            | _            | ļ            | <b> </b>     | _        |
|       | 41       | _              | <u></u>      | 匚  | <u> </u>   | <u> </u>   | $\Box$   |  | _            | <u> </u>   |     | L            | 91       |  | <u> </u> | L            |          | L_           | <u> </u>     |              | _            |          |
|       | 42       | _              |              | L  | L_   |  | لــــا   |  | _            |  |     |              | 92       | L  | <u> </u> | <u> </u>     | <u>_</u> | <u> </u>     | _            |              | $oxed{oxed}$ |          |
|       | 43       |                | L            |  |  | L  |          |  |              |  |     |              | 93       |  |          |              | _        |              |              | _            |              |          |
|       | 44       |                |              |  |  |  |          |  |              |  |     |              | 94       |  |          |              |          |              |              |              |              |          |
|       | 45       |                |              |  |  |  |          |  |              |  |     |              | 95       |  |          |              | Γ        | Γ            |              |              |              |          |
|       | 46       | Π              | Π            |  | Γ  | Г  |          | ·····  |              |  | 1   |              | 96       | Γ  |          |              | Г        | Г            | Γ            |              | Г            |          |
|       | 47       | $\vdash$       |              |  |  | <u> </u>   |          |  | $\vdash$     | П  | 1   |              | 97       |  |          |              |          |              | $\vdash$     | $\vdash$     |              | $\vdash$ |
|       | 48       | T              | <u> </u>     |  | <del>                                     </del> | <del>                                     </del> |          |  |              |  | 1   |              | 98       | <del>                                     </del> |          | $\vdash$     | Т        | $\vdash$     |              | $\vdash$     | $\vdash$     | $\vdash$ |
|       | 49       | +-             |              | <del> </del>                                     |  | <del>                                     </del> | -        | <del>                                     </del> | $\vdash$     | $\vdash$   | 1   | _            | 99       | $\vdash$   | $\vdash$ | $\vdash$     | $\vdash$ | <del> </del> | <del> </del> | -            | $\vdash$     | $\vdash$ |
|       | 50       | $\vdash$       | $\vdash$     | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$ | $\vdash$   | $\vdash$     | $\vdash$   | 1   | <del> </del> | 100      |  |          | $\vdash$     | $\vdash$ | $\vdash$     | <del> </del> | $\vdash$     | $\vdash$     | $\vdash$ |
|       | <u> </u> | ١              | Щ            | Щ  | <u> </u>   | Щ  | Щ        |  | ــــا        | ـــــا   | J   | Ь            | 1 .00    | i  | <u> </u> | L            | Щ        | Щ            | Щ            |              | Щ            | L        |

| Cla  | aim   | Date   |              |  |              |  |  |              |                |                |  |
|--|---|--|--------------|--|--------------|--|--|--------------|----------------|----------------|--|
|  |   |  |              |  |              |  |  |              |                |                |  |
| Final  | Original                                      |  |              |  |              |  |  |              |                |                |  |
|  | 101   |  |              | $\vdash$   |              | -  |  |              |                | $\neg$         |  |
|  | 102<br>103                                    |  |              |  |              |  |  |              |                | $\Box$         |  |
|  | 103   |  |              |  |              |  |  |              |                |                |  |
|  | 104   |  |              |  |              |  |  |              |                |                |  |
|  | 105   |  |              | $\Box$   |              |  |  |              |                |                |  |
|  | 105<br>106                                    |  |              |  |              |  |  |              |                |                |  |
|  | 107   |  |              |  |              |  |  |              |                |                |  |
|  | 108   |  |              |  |              |  |  |              |                | Ш              |  |
|  | 109   | _  |              |  |              |  |  |              |                | $\sqcup$       |  |
|  | 110<br>111                                    |  |              | _  |              |  |  |              |                |                |  |
|  | 111   |  | <u> </u>     |  |              |  | _  | <u> </u>     |                | _              |  |
|  | 112   | <u> </u>   | <u> </u>     | -  | -            |  | -  |              |                | $\vdash$       |  |
|  | 113   | -  |              |  |              |  | $\vdash$   | -            | -              |                |  |
|  | 113<br>114<br>115                             |  | -            |  | -            | -  | -  | -            |                |                |  |
|  | 116   |  | <del> </del> | -  | -            | -  | _  | -            | -              |                |  |
|  | 116<br>117                                    |  |              |  | ┝            | $\vdash$   |  | <u> </u>     |                |                |  |
|  | 118   |  | <del> </del> | _  | ├─           |  |  | -            | -              | -              |  |
|  | 119   | -  | -            | <del>                                     </del> | $\vdash$     |  |  |              |                |                |  |
|  | 120   | $\vdash$   | $\vdash$     |  | Н            |  |  |              | _              | Н              |  |
|  | 121   |  |              |  | Т            |  | _  |              |                |                |  |
|  | 122   |  |              |  |              |  |  |              |                |                |  |
|  | 121<br>122<br>123                             |  |              |  |              |  |  |              |                |                |  |
|  | 124   |  |              |  |              |  |  |              | <u> </u>       | Ш              |  |
|  | 125   |  |              | _  |              | <u> </u>   |  | _            | <u> </u>       |                |  |
|  | 124<br>125<br>126<br>127<br>128<br>129<br>130 | ļ  |              |  |              | <u> _</u>  | _  | _            |                |                |  |
|  | 127   |  |              | <u> </u>   |              | _  | _  | <u> </u>     |                |                |  |
|  | 128   |  |              |  |              |  | -  | ⊢            | -              | $\vdash\vdash$ |  |
|  | 129   | -  |              |  | <del> </del> | ├  | -  | ├            | <del> </del>   | -              |  |
|  | 131   |  | -            | -  |              | -  | ├  |              | _              | -              |  |
|  | 132   | -  |              | <del> </del>                                     |              |  | -  | -            | -              | $\vdash$       |  |
|  | 132<br>133                                    | -  | -            | ┢  | ┢╌           | ┢  |  | ┢            |                | $\vdash$       |  |
|  | 134   | <del> </del>                                     |              | <del>                                     </del> | $\vdash$     | <del>                                     </del> | _  | 1            | <del> </del>   |                |  |
|  | 135   | $\overline{}$                                    | ┪            |  |              | <del>                                     </del> |  | Г            |                | П              |  |
|  | 135<br>136                                    |  |              |  |              |  |  |              |                |                |  |
|  | 137   |  |              |  |              |  |  |              |                |                |  |
|  | 138<br>139                                    |  | Ĺ            | L  |              |  | Ĺ  | _            | <u></u>        | Ш              |  |
|  | 139   | <u> </u>   |              | _  | _            | <u> </u>   | _  |              | <u> </u>       | -              |  |
| <u></u>  | 140   | <u> </u>   | <u> </u>     | <u> </u>   | <u> </u>     | <u> </u>   | _  | <b> </b>     | <u> </u>       |                |  |
|  | 141   | <u> </u>   | ├-           |  | -            | <b> </b> -                                       | -  | <del> </del> | <del> </del> — | $\vdash$       |  |
|  | 142   | -  | -            |  | -            |  | -  | -            | ├              | $\vdash$       |  |
| <del>                                     </del> | 144   |  |              | ╁  |              | <del> </del>                                     | -  | -            | <del> </del>   | $\vdash$       |  |
| <u> </u>   | 145   |  | $\vdash$     | $\vdash$   | -            | -  | -  | -            | <del>  -</del> | $\vdash$       |  |
|  | 146   | 1  |              | $\vdash$   | $\vdash$     | $\vdash$   | <del>                                     </del> | $\vdash$     | $\vdash$       | $\vdash$       |  |
|  | 147   |  |              | <u> </u>   | -            | ┢  | <del>  -</del>                                   | <b>†</b>     | $\vdash$       | $\vdash$       |  |
| <del></del>                                      | 148   | <del>                                     </del> | Т            | T  | -            | <del>                                     </del> |  | †            | T              | П              |  |
|  | 149   | $\vdash$   | Т            | Π  |              | T  | 1  | T            | $\vdash$       |                |  |
|  | 150   |  |              |  |              |  |  |              |                |                |  |
|  |   |  |              |  |              |  |  |              |                |                |  |